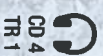




# Nature of Matter

## FOCUS QUESTION

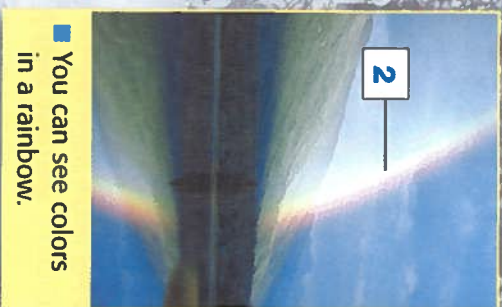
What can your senses tell you about matter?



CD 4  
TR 1

- |          |                    |          |           |
|----------|--------------------|----------|-----------|
| 1 senses | 4 taste            | 7 burn   | 10 gas    |
| 2 color  | 5 texture          | 8 rust   | 11 liquid |
| 3 odor   | 6 chemical changes | 9 states | 12 solid  |

### 1 Senses



2

You can see colors in a rainbow.



3

You can smell the odor of a flower.



4

The taste of ice cream is sweet.



**Property** can mean "an object owned by someone."

If you own a bike, it is your **property**.



**Property** can also mean "a characteristic or trait."

One **property** of this apple is that it is red.

## Word Study

### Multiple-Meaning Words

The word **property** has different meanings.

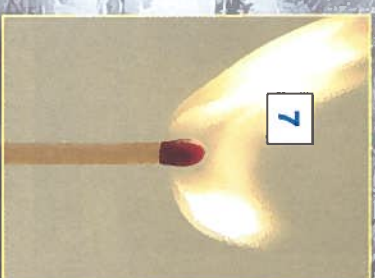


5

You can feel the smooth texture of a cat's fur.

For information on measuring matter, see pages 166–169.

### 6 Chemical Changes



7



8

### 9 States



10

Water vapor

11

Water

12

Ice

## Vocabulary in Context



CD 4  
TR 2

Matter is made up of tiny bits too small to see. Matter can be a **solid**, such as ice, or a **liquid**, such as water. Matter can also be a **gas**, such as water vapor.

Your **senses** give you information about the properties of matter. You can see the **color** of a lemon and **taste** how sour it is. The **odor** of lemons can tell you that someone is making fresh lemonade.



Matter can change. Matter can change to become a solid, a liquid, or a gas. Some kinds of matter can burn or rust. Burning and rusting are examples of **chemical changes**.

## Check Your Understanding

- Look at the pictures of the senses. What words can you use to describe the color, odor, taste, or texture of what you see?
- You see a glass of apple juice. Is the juice a solid, a liquid, or a gas?
- What can your senses tell you about matter?

### Critical Thinking Analyzing Information

- What property of matter lets you tell the difference between salt and sugar?